

Title (en)

CONNECTORS FOR USE WITH PIEZOELECTRIC POLYMERIC FILM TRANSDUCERS.

Title (de)

ANSCHLÜSSE ZUR ANWENDUNG BEI WANDLERN AUS PIEZOELEKTRISCHEM POLYMERFILM.

Title (fr)

CONNECTEURS UTILISABLES AVEC DES TRANSDUCTEURS A FILM POLYMERE PIEZOELECTRIQUE.

Publication

**EP 0271507 B1 19931208 (EN)**

Application

**EP 87903133 A 19870416**

Priority

US 85358486 A 19860418

Abstract (en)

[origin: WO8706394A1] Piezoelectric polymer film transducers include a metallized film electrode (14, 16) deposited on each of the two surfaces of the film (12). The electrodes are provided with leads (18, 20) extending therefrom in staggered parallel relationship. Each lead of the improved connector is associated with a reinforced assembly comprising plastic strips (24, 26), a terminal connector (54, 56), optional spacer washers (42, 44, 46, 48, 50, 52), and a metal rivet (58, 60) or other securing means which penetrates the assembly such that electrical contact is effected between the lead and terminal connector. To ensure positive electrical contact, a conductive ink (82) may be deposited on one of the plastic strips (24) through which an orifice (80) is provided. The orifice communicates with a selected lead (70). The ink coats the walls of the orifice (80) to ensure electrical continuity between the lead (70) and the terminal connector. A modified connector assembly disposes the reinforced connectors (106) beyond the edges of a substrate (94) which carries or supports the piezoelectric polymer film transducers.

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